

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/591,726
Source: IFWP
Date Processed by STIC: 9/13/06

ENTERED



IFWP

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/591,726

DATE: 09/13/2006
 TIME: 11:07:38

Input Set : A:\21085064U1.TXT
 Output Set: N:\CRF4\09132006\J591726.raw

4 <110> APPLICANT: UAB Research Foundation
 6 <120> TITLE OF INVENTION: BRHF1 AS A CANCER DIAGNOSTIC MARKER
 9 <130> FILE REFERENCE: 21085.0064P1
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/591,726
 C--> 11 <141> CURRENT FILING DATE: 2006-09-05
 11 <150> PRIOR APPLICATION NUMBER: 60/550,224
 12 <151> PRIOR FILING DATE: 2004-03-04
 14 <160> NUMBER OF SEQ ID NOS: 21
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 105
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
 25 Synthetic Construct
 27 <400> SEQUENCE: 1
 28 Met Lys Gly Leu Ser Pro Ile Ala Lys Gly Arg Lys Thr Ser Val Ser
 29 1 5 10 15
 30 Ala Ala Val Leu Val Ser Thr Thr Ile Pro Ile Ser Ser Val Trp Gly
 31 20 25 30
 32 Pro Leu Gln Ile Leu Gly Gln Lys Arg Gly Gln Lys Met Glu Gln Ala
 33 35 40 45
 34 Asn His Pro Val Gly Leu Asp Ile Ser Val Val Tyr Lys Asp Thr Leu
 35 50 55 60
 36 Lys Lys Ile Val Gln Gln Glu Thr Ser Cys Pro Phe Thr His Val His
 37 65 70 75 80
 38 Tyr Ala Glu Gly Ile Thr Gly Arg His Thr Ala Pro Glu Asp Glu Gly
 39 85 90 95
 40 Ser Leu Ala Gln Lys Pro Pro Ile Arg
 41 100 105
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 270
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Artificial Sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
 51 Synthetic Construct
 53 <400> SEQUENCE: 2
 54 Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala Asn Gln Ile
 55 1 5 10 15
 56 Gln Gln His Ile Lys Lys Leu Ile His His Asp Gln Val Gly Phe Ile
 57 20 25 30

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58 Pro Gly Met Gln Gly Trp Phe Asn Ile His Lys Ser Ile Asn Val Ile
59 35 40 45
60 Gln His Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile Ile Ser Val
61 50 55 60
62 Asp Ala Glu Lys Ala Phe Asp Lys Val Gln Gln His Phe Met Leu Lys
63 65 70 75 80
64 Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr Leu Lys Ile Ile Arg
65 85 90 95
66 Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile Leu Asn Gly Leu Lys
67 100 105 110
68 Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu
69 115 120 125
70 Ser Leu Leu Leu Phe Asn Ile Val Leu Glu Val Leu Ala Arg Ala Ile
71 130 135 140
72 Arg Gln Glu Lys Glu Ile Asn Cys Ile Gln Leu Gly Lys Glu Glu Val
73 145 150 155 160
74 Lys Leu Pro Leu Phe Ala Asp Asp Met Ile Val Tyr Leu Glu Asn Pro
75 165 170 175
76 Val Val Ser Ala Pro Asn Leu Leu Lys Leu Ile Ser Asn Phe Ser Lys
77 180 185 190
78 Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr
79 195 200 205
80 Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met Ser Glu Leu Pro Phe
81 210 215 220
82 Thr Ile Ala Ser Lys Arg Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg
83 225 230 235 240
84 Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys Pro Leu Leu Asn Glu
85 245 250 255
86 Ile Lys Glu Asp Thr Asn Lys Cys Lys Asn Ile Pro Cys Ser
87 260 265 270
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 315
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
97 Synthetic Construct
99 <400> SEQUENCE: 3
100 atgaaggat tatgcctat cgccaagggg aggaaaacta gtgtttctgc tgctgtttg 60
101 gtgagcacaa ctattccat cagcagtgtc tggggaccat tgcagattct tgggcaaaag 120
102 agaggacaga aaatggagca ggccaatcac ccagtggggc ttgatatcag tgtggttac 180
103 aaggacacct taaaaaaagat tgtccaacaa gaaacaagct gccccttcac ccatgtccac 240
104 tatgctgagg gaatcactgg aaggcacact gccccagagg atgaaggttc tctggcccag 300
105 aagcccccaa tcaga 315
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 810
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:

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113 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
114 Synthetic Construct
116 <400> SEQUENCE: 4
117 atgaacatcg atgaaaaat cctcaataaa atactggcaa accaaatcca gcagcacatc 60
118 aaaaagctta tccaccatga tcaagtggc ttcatccctg ggatgcaagg ctggttcaac 120
119 atacacaaat caataaatgt aatccagcat ataaacagaa ccaaagacaa aaaccacatg 180
120 attatctcag tagatgcaga aaaggcctt gacaaagtt aacaacactt catgctaaaa 240
121 actctcaata aatttaggtat ttagatggacg tatctcaaaa taataagagc tatctatgac 300
122 aaacccacag ccaatatcat actgaatggg ctaaaactgg aagcattccc tttgaaaact 360
123 ggcacaagac agggatgcc tctctcactt ctccattca acatagtgtt ggaagttctg 420
124 gccagggcaa tcagggcagga gaaggaaata aattgtattc aatttaggaaa agaggaagtt 480
125 aaattgcccc tggggcaga tgacatgatt gtatatctgg aaaacccgt cgtctcagcc 540
126 ccaaattctcc ttaagctgat aagcaacttc agcaaagtct caggatacaa aatcaacgtg 600
127 caaaaatcac aagcattctt atacaccaat aacagacaaa cagagagcca aatcatgagt 660
128 gaactcccatt tcacaattgc ttccaaagaga ataaaaatacc taggaatcca acttacaagg 720
129 gatgtgaagg acctcttcaa ggagaactac aaaccactgc tcaacgaaat aaaagaggat 780
130 acaaacaat gcaagaacat tccatgctca 810
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 1263
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
139 Synthetic Construct
141 <400> SEQUENCE: 5
142 catctacaga actctccacc ccaaattcaac agaataataca ttttttcag caccacacca 60
143 cacctattcc aaaattgacc acatagttgg aagtaaagct ctccctcagca aatgtaaaag 120
144 aacagaaatt ataacaaact atctctcaga ccacagtgc atcaaactag aactcaggat 180
145 taagaatctc actcaaagcc gctcaactac atggaaactg aacaacctgc tcctgaatga 240
146 ctactggta cataacgaaa tgaaggcaga aataaagatg ttctttgaaa ccaacgagaa 300
147 caaagacacc acataccaga atctctggg cgcattcaaa gcagtgtgta gagggaaatt 360
148 tatagcacta aatgcctacc agagaaagca gggaaagatcc aaaattgaca ccctaacatc 420
149 acaattaaaa gaactagaaa agcaagagca aacacattca aaagctagca gaaggcaaga 480
150 aataactaaa atcagagcag aactgaagga aatagagaca caaaaaaccc ttcaaaaaat 540
151 caatgaatcc aggagctggt tttttgaaaag gatcaacaaa attgatagac cgctagcaag 600
152 actaataaaag aaaaaaaagag agaagaatca aatagacaca ataaaaaatg ataaagggg 660
153 tatcaccacc gatcccacag aaatacaaac taccatcaga gaatactaca aacacctcta 720
154 cgcaaataaa ctagaaaaatc tggaaagaaat ggatacattc ctcgacacat acactctccc 780
155 aagactaaac caggaagaag ttgaatctt gaatcgacca ataacaggct ctgaaattgt 840
156 ggcaataatc aatagttac caaccaaaaa gagtccagga ccagatggat tcacagccga 900
157 attctaccag aggtacaagg aggaactggt accattcctt ctgaaactat tccaatcaat 960
158 agaaaaagag ggaatcctcc ctaactcatt ttatgagacc agcatcattc tgataccaaa 1020
159 gcccggcaga gacacaacca aaaaagagaa ttttagacca atatccttga tgaacattga 1080
160 tgcaaaaaatc ctcaataaaa tactggcaaa ccgaatccag cagcacatca aaaagcttat 1140
161 ccaccatgat caagtggcgt tcataccctgg gatgcaaggc tggttcaata tacgcaaatc 1200
162 aataaatgtt atccagcata taaacagagc caaagacaaa aaccacatga ttatctcaat 1260
163 aga 1263
165 <210> SEQ ID NO: 6
166 <211> LENGTH: 10

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167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
172 Synthetic Construct
174 <400> SEQUENCE: 6
175 cagagcctgt 10
177 <210> SEQ ID NO: 7
178 <211> LENGTH: 10
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
184 Synthetic Construct
186 <400> SEQUENCE: 7
187 ctctgggaca 10
189 <210> SEQ ID NO: 8
190 <211> LENGTH: 375
191 <212> TYPE: PRT
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
196 Synthetic Construct
198 <400> SEQUENCE: 8
199 Met Lys Gly Leu Ser Pro Ile Ala Lys Gly Arg Lys Thr Ser Val Ser
200 1 5 10 15
201 Ala Ala Val Leu Val Ser Thr Thr Ile Pro Ile Ser Ser Val Trp Gly
202 20 25 30
203 Pro Leu Gln Ile Leu Gly Gln Lys Arg Gly Gln Lys Met Glu Gln Ala
204 35 40 45
205 Asn His Pro Val Gly Leu Asp Ile Ser Val Val Tyr Lys Asp Thr Leu
206 50 55 60
207 Lys Lys Ile Val Gln Gln Glu Thr Ser Cys Pro Phe Thr His Val His
208 65 70 75 80
209 Tyr Ala Glu Gly Ile Thr Gly Arg His Thr Ala Pro Glu Asp Glu Gly
210 85 90 95
211 Ser Leu Ala Gln Lys Pro Pro Ile Arg Met Asn Ile Asp Ala Lys Ile
212 100 105 110
213 Leu Asn Lys Ile Leu Ala Asn Gln Ile Gln Gln His Ile Lys Lys Leu
214 115 120 125
215 Ile His His Asp Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe
216 130 135 140
217 Asn Ile His Lys Ser Ile Asn Val Ile Gln His Ile Asn Arg Thr Lys
218 145 150 155 160
219 Asp Lys Asn His Met Ile Ile Ser Val Asp Ala Glu Lys Ala Phe Asp
220 165 170 175
221 Lys Val Gln Gln His Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile
222 180 185 190
223 Asp Gly Thr Tyr Leu Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr

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224	195	200	205	
225	Ala Asn Ile Ile Leu Asn Gly Leu Lys Leu Glu Ala Phe Pro Leu Lys			
226	210	215	220	
227	Thr Gly Thr Arg Gln Gly Cys Pro Leu Ser Leu Leu Leu Phe Asn Ile			
228	225	230	235	240
229	Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Asn			
230	245	250	255	
231	Cys Ile Gln Leu Gly Lys Glu Glu Val Lys Leu Pro Leu Phe Ala Asp			
232	260	265	270	
233	Asp Met Ile Val Tyr Leu Glu Asn Pro Val Val Ser Ala Pro Asn Leu			
234	275	280	285	
235	Leu Lys Leu Ile Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn			
236	290	295	300	
237	Val Gln Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu			
238	305	310	315	320
239	Ser Gln Ile Met Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Ile			
240	325	330	335	
241	Lys Tyr Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys			
242	340	345	350	
243	Glu Asn Tyr Lys Pro Leu Leu Asn Glu Ile Lys Glu Asp Thr Asn Lys			
244	355	360	365	
245	Cys Lys Asn Ile Pro Cys Ser			
246	370	375		
249	<210> SEQ ID NO: 9			
250	<211> LENGTH: 1125			
251	<212> TYPE: DNA			
252	<213> ORGANISM: Artificial Sequence			
254	<220> FEATURE:			
255	<223> OTHER INFORMATION: Description of Artificial Sequence:/note =			
256	Synthetic Construct			
258	<400> SEQUENCE: 9			
259	atgaaggat tatcgctat cgccaagggg aggaaaacta gtgttctgc tgctgtgttgc	60		
260	gtgagcacaa ctattccgat cagcagtgtc tggggaccat tgcagattct tgggcaaaag	120		
261	agaggacaga aaatggagca ggccaatcac ccagtggggc ttgatatcag tgtggttac	180		
262	aaggacacct taaaaaagat tgtccaacaa gaaacaagct gccccttcac ccatgtccac	240		
263	tatgctgagg gaatcactgg aaggcacact gccccagagg atgaaggttc tctggcccag	300		
264	aagcccccaa tcagaatgaa catcgatgca aaaatcctca ataaaaatact ggcaaacc	360		
265	atccagcagc acatcaaaaa gcttatccac catgatcaag tggcattcat ccctggatg	420		
266	caaggcttgt tcaacataca caaatcaata aatgtatcc agcatataaa cagaacc	480		
267	gacaaaaacc acatgattat ctcagtagat gcagaaaaagg cctttgacaa agttcaacaa	540		
268	cacttcatgc taaaaactct caataaaatta ggtattgatg ggacgtatct caaaataata	600		
269	agagctatct atgacaaacc cacagccaaat atcatactga atgggctaaa actggaagca	660		
270	ttccctttga aaactggcac aagacaggga tgccctctct cacttctcct attcaacata	720		
271	gtgttggaaat ttctggccag ggcaatcagg caggagaagg aaataaaattt tattcaatta	780		
272	ggaaaaagagg aagttaaatt gcccctgttt gcagatgaca tgattgtata tctggaaaac	840		
273	cccgctgtct cagccccaaa tctccttaag ctgataagca acttcagcaa agtctcagga	900		
274	tacaaaatca acgtgaaaaa atcacaagca ttcttataca ccaataacag acaaacagag	960		
275	agccaaatca tgagtgaact cccattcaca attgcttcaa agagaataaa ataccttagga	1020		
276	atccaaactta caagggatgt gaaggacctc ttcaaggaga actacaaacc actgctcaac	1080		

VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date